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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=11; day=17; hr=11; min=39; sec=22; ms=273;
]

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Reviewer Comments:

<210> 30

<211> 12

<212> PRT

<220>

<221> PEPTIDE

<222> 10

<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 10

Please insert the mandatory <213> and its response.

Application No: 10552153 Version No: 2.0

Input Set:**Output Set:**

Started: 2008-11-17 11:09:53.865
Finished: 2008-11-17 11:09:57.800
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 935 ms
Total Warnings: 39
Total Errors: 39
No. of SeqIDs Defined: 40
Actual SeqID Count: 40

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (8)

Input Set:

Output Set:

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Total Warnings: 39
Total Errors: 39
No. of SeqIDs Defined: 40
Actual SeqID Count: 40

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (17)

Input Set:

Output Set:

Started: 2008-11-17 11:09:53.865
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Total Warnings: 39
Total Errors: 39
No. of SeqIDs Defined: 40
Actual SeqID Count: 40

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20) This error has occurred more than 20 times, will not be displayed
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (20) This error has occurred more than 20 times, will not be displayed
E 249	Order Sequence Error <212> -> <220>; Expected Mandatory Tag: <213> in SEQID (30)
E 250	Structural Validation Error; Sequence listing may not be indexable

<110> Mohamadzadeh, Mansour
Curiel, Tyler J.
Morris, Cindy A.

<120> Dendritic Cell Binding Proteins and
Uses Thereof

<130> D6486

<140> 10/552,153

<141> 2004-04-08

<150> PCT/US2004/10832

<151> 2003-04-08

<160> 40

 $\langle 210 \rangle$ 1

<211> 12

<212> PRT

<213> artificial sequence

 $\langle 220 \rangle$

<221> PEPTIDE

<223> peptide specific to myeloid dendritic cells

<400> 1

Tyr Pro Ile Val Asn Thr Ala Val Ala Thr His Met

5

10

 $\langle 210 \rangle \quad 2$

<211> 12

<212> PRT

<213> artificial sequence

 $\langle 220 \rangle$

<221> PEPTIDE

<223> peptide specific to myeloid dendritic cells

 $\langle 400 \rangle$ 2

Ala Thr Phe Thr Val Gly Pro Pro Gln Leu Leu Arg

5

10

 $\langle 210 \rangle \quad 3$

<211> 12

<212> PRT

<213> artificial sequence

 $\langle 220 \rangle$

<221> PEPTIDE

<223> peptide specific to myeloid dendritic cells

<400> 3

Phe Tyr Pro Ser Tyr His Ser Thr Pro Gln Arg Pro

5

10

<210> 4

<211> 12
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <222> 7
 <223> peptide specific to myeloid dendritic cells;
 Xaa = unknown at position 7

<400> 4
 Thr Ser Ile Gly Thr His Xaa Leu Ser Ala Ala Leu
 5 10

<210> 5
 <211> 12
 <212> PRT
 <213> artificial sequence

<220>
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 <223> peptide specific to myeloid dendritic cells

<400> 5
 Thr Glu Thr Ser Trp Ser Met Phe Pro Leu His Leu
 5 10

<210> 6
 <211> 12
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <223> peptide specific to myeloid dendritic cells

<400> 6
 Ala Pro His Leu Pro Tyr Leu Arg Gly Leu Asn Leu
 5 10

<210> 7
 <211> 12
 <212> PRT
 <213> artificial sequence

<220>
 <221> PEPTIDE
 <223> peptide specific to myeloid dendritic cells

<400> 7
 His His Asn Ser Asn His Arg Ser Phe His Tyr Leu
 5 10

<210> 8
 <211> 12
 <212> PRT
 <213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to myeloid dendritic cells

<400> 8
Ser Tyr Ala Asn Leu Ile Arg Ser Ile Gln Pro Gly
5 10

<210> 9
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to myeloid dendritic cells

<400> 9
Thr Leu Val His Gln Trp Gln Pro Trp Pro Lys Ala
5 10

<210> 10
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to myeloid dendritic cells

<400> 10
Ile Arg His Thr Thr Ser Gly Pro Pro Pro Ser Ser
5 10

<210> 11
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to myeloid dendritic cells

<400> 11
Tyr Pro Gln Ala Leu Asn Thr Gln Pro Asp Trp Pro
5 10

<210> 12
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to myeloid dendritic cells

Ala Tyr Tyr Lys Thr Ala Ser Leu Ala Pro Ala Glu
5 10

<213> artificial sequence

<223> peptide specific to myeloid dendritic cells

Ser Gln Asn Ser Leu Tyr Ser Ser Lys Pro Val Arg
5 10

<213> artificial sequence

<223> peptide specific to myeloid dendritic cells

Ser Leu Ser Leu Leu Thr Met Pro Gly Asn Ala Ser
5 10

<213> artificial sequence

<223> peptide specific to myeloid dendritic cells

Gln Ser Gln Thr Tyr Gln Thr His Ser Val Thr Met
5 10

<213> artificial sequence

<223> peptide specific to myeloid dendritic cells

Glu Pro Ile His Pro Glu Thr Thr Phe Thr Asn Asn
5 10

<210> 17

<211> 12
 <212> PRT
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 <220>
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 <223> peptide specific to myeloid dendritic cells

 <400> 17
 Glu Thr Pro Met Val His Trp Pro Ser Thr Ser Pro
 5 10

 <210> 18
 <211> 12
 <212> PRT
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 <220>
 <221> PEPTIDE
 <223> peptide specific to myeloid dendritic cells

 <400> 18
 Ser Leu Ser Leu Leu Thr Met Pro Gly Asn Ala Ser
 5 10

 <210> 19
 <211> 12
 <212> PRT
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 <220>
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 <223> peptide specific to myeloid dendritic cells

 <400> 19
 Asn Trp Trp Ser Asp Trp Val Met Leu Thr Gln Ser
 5 10

 <210> 20
 <211> 12
 <212> PRT
 <213> artificial sequence

 <220>
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 <223> peptide specific to myeloid dendritic cells

 <400> 20
 Gln Trp Pro Gln Tyr His Tyr Leu Arg Pro Thr Leu
 5 10

 <210> 21
 <211> 12
 <212> PRT
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 <220>

<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 21
Ser Ile Thr Gln His Leu Gln Leu Lys Pro Leu Ala
5 10

<210> 22
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<222> 9
<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 9

<400> 22
Val Ser His Pro Leu Trp His Pro Xaa Arg Ile Leu
5 10

<210> 23
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 23
Val Ser Ser Pro Pro Arg Val Ser Gly Ile Gly Leu
5 10

<210> 24
<211> 12
<212> PRT
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<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 24
His Pro Pro Glu Ile Tyr Ser Pro Pro Arg Tyr Pro
5 10

<210> 25
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 25

His Ser Leu Arg Leu Asp Phe Met Ala Pro Leu Thr
5 10

<210> 26

<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 26

Leu Pro Pro Gly Ala Asp Leu Tyr Phe His Pro Ser
5 10

<210> 27

<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 27

Ile Pro Pro Leu Arg Ile Thr Glu Val Thr Pro Thr
5 10

<210> 28

<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 28

Ile Arg His Thr Thr Ser Gly Pro Pro Pro Ser Ser
5 10

<210> 29

<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 29

Val Ser Ser Pro Pro Arg Val Ser Gly Ile Gly Leu
5 10

<210> 30
<211> 12
<212> PRT

<220>
<221> PEPTIDE
<222> 10

<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 10

<400> 30
Lys Ile Met Gln Ser Pro Leu Gln His Xaa Ala Pro
5 10

<210> 31
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<222> 4
<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 4

<400> 31
Lys Val Trp Xaa Ile Asp Trp Pro Pro Pro Ala Tyr
5 10

<210> 32
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<222> 10
<223> peptide specific to Langerhans dendritic cells;
Xaa = unknown at position 10

<400> 32
Ala Asp Arg Ser Arg Glu Leu Ala Leu Xaa Ile Phe
5 10

<210> 33
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 33
Ile Ile Pro Ser Thr Ala Asn Lys Ser Ile Ala Thr

<210> 34
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 34
Ser Asn Leu Ser Arg Thr Thr Leu Tyr Ser Gln Val
5 10

<210> 35
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 35
His Ser Leu Arg Ser Asp Trp Val Ser Pro Asn Thr
5 10

<210> 36
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 36
Ser Ser Thr Ile Asn Tyr Asn Arg Leu Asn Leu His
5 10

<210> 37
<211> 12
<212> PRT
<213> artificial sequence

<220>
<221> PEPTIDE
<223> peptide specific to Langerhans dendritic cells

<400> 37
Ser Leu His Arg Ser Ser Ser Leu Pro Ile Ser Thr
5 10

<210> 38
<211> 12

<212> PRT

<213> artificial sequence

<220>

<221> PEPTIDE

<223> peptide used as negative control

<400> 38

Glu Pro Ile His Pro Glu Thr Thr Phe Thr Asn Asn

5

10

<210> 39

<211> 95

<212> DNA

<213> artificial sequence

<220>

<223> forward primer to fusion protein of DC-
binding peptide 3 and immunodominant domains
of HER2/Neu

<400> 39

catgccatgg agaagatctt tgggagcctg gcatttctgc cggagagctt 50

tgatggggac cctcgaggcg gaggtcgtag actgctgcag gaaac 95

<210> 40

<211> 80

<212> DNA

<213> artificial sequence

<220>

<223> reverse primer to fusion protein of DC-
binding peptide 3 and immunodominant
domains of HER2/Neu

<400> 40

gccggtacct gggggtcctt ggccatgcgg gagaattcag acaccaactc 50

tccgccaccg ctaggtgtca gcggtccac 80